RCA

6AQ7-GT
TWIN DIODE—HIGH-MU TRIODE

GENERAL DATA

Electrical:

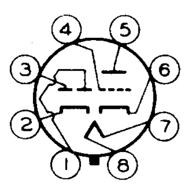
Heater, for Unipotential Cathodes:		
Voltage	6.3	ac or dc volts
Current	0.3	amp
Direct Interelectrode Capacitances:		
Triode Unit:°		
Grid to Plate	3.0	μμf
Grid to Cathode	2.8	μμf
Plate to Cathode	3.2	μμf
Grid to Diode Cathode°	0.25 max.	μμf
Diode-No.1 Plate to Diode Cathode*	2.2	μμf
Diode-No.2 Plate to Diode Cathode*	2.4	μμf
Diode-No.1 Plate to Diode-No.2 Plate*	0.5	μμf

° With external shield No.308 connected to Pin No.6.
* With external shield No.308 connected to Pin No.2.

Mechanical:

Mounting Position	Any
Maximum Overall Length	3-5/16"
Maximum Seated Length	2-3/4"
Maximum Diameter	1-9/32"
Bulb	T-9
Base	Intermediate-Shell Octal 8-Pin
Basing Designation for BOTTOM VIEW	8CK

Pin 1 - Diode-No.2 Plate
Pin 2 - Cathode of Diode Units
Pin 3 - Diode-No.1 Plate



Pin 4 - Triode Grid
Pin 5 - Triode Plate
Pin 6 - Cathode of Triode Unit
Pin 7 - Heater
Pin 8 - Heater

TRIODE UNIT
AMPLIFIER - Class A₁

Maximum Ratings, ***Design-Center Values:***

PLATE VOLTAGE	250 max.	volts
GRID VOLTAGE:		
Positive bias value	0 max.	volts
PLATE DISSIPATION	1 max.	watt
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Typical Operation and Characteristics:

Plate Voltage	100	250	volts
Grid Voltage	-1	-2	volts

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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Amplification Factor	79	70		
Plate Resistance (Approx.) . . .	64000	44000	. .	ohms
Transconductance	1250	1600	. .	μmhos
Plate Current.	1.1	2.3	. .	ma

Typical Operation as Resistance-Coupled Amplifier:

See RESISTANCE-COUPLED AMPLIFIER CHARTS at front of this Section.

DIODE UNITS - Two

Maximum Ratings, ***Design-Center Values*****:**

PLATE CURRENT (For Each Diode) . . . . . . 0.9 max. ma

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY